

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000158

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> H04S7/00, H04R1/02, H04R1/40, H04S1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H04S7/00, H04R1/02, H04R1/40, H04S1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Jitsuyo Shinan Toroku Koho	1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-41897 A (Pioneer Electronic Corp.), 19 February, 1993 (19.02.93), & US 5233664 A1 & GB 2259426 A & DE 4205037 A1	1-6
Y	JP 2000-184488 A (Matsushita Electric Industrial Co., Ltd.), 30 June, 2000 (30.06.00), (Family: none)	1-6
Y	JP 2003-510924 A (1... IPR LTD.), 18 March, 2003 (18.03.03), & GB 9922919 D & WO 2001/23104 A2 & EP 1224037 A	1-6

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
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- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
31 March, 2005 (31.03.05)Date of mailing of the international search report  
19 April, 2005 (19.04.05)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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PCT/JP2005/000158

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-121400 A (Nippon Hoso Kyokai), 06 May, 1997 (06.05.97), (Family: none)	1-6
A	JP 2002-345077 A (Kansai TLO Kabushiki Kaisha), 29 November, 2002 (29.11.02), (Family: none)	1-6
A	JP 6-209500 A (Sanyo Electric Co., Ltd.), 26 July, 1994 (26.07.94), (Family: none)	1-6
A	JP 6-261385 A (Matsushita Electric Industrial Co., Ltd.), 16 September, 1994 (16.09.94), (Family: none)	1-6
A	JP 5-276591 A (Matsushita Electric Industrial Co., Ltd.), 22 October, 1993 (22.10.93), (Family: none)	1-6
A	JP 6-62488 A (Pioneer Electronic Corp.), 04 March, 1994 (04.03.94), & GB 2273848 A	1-6
A	JP 2004-531125 A (1... IPR LTD.), 07 October, 2004 (07.10.04), & WO 2002/078388 A & GB 0200291 D	1-6
A	JP 6-225379 A (Matsushita Electric Industrial Co., Ltd.), 12 August, 1994 (12.08.94), (Family: none)	1-6
A	JP 2004-172661 A (Sony Corp.), 17 June, 2004 (17.06.04), (Family: none)	1-6
A	JP 2004-363697 A (Yamaha Corp.), 24 December, 2004 (24.12.04), (Family: none)	1-6
A	JP 2004-350173 A (Nippon Hoso Kyokai), 09 December, 2004 (09.12.04), (Family: none)	1-6
A	JP 2003-23689 A (Sony Corp.), 24 January, 2003 (24.01.03), (Family: none)	1-6
A	JP 9-233591 A (Sony Corp.), 05 September, 1997 (05.09.97), (Family: none)	1-6

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000158

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2004-193698 A (Sony Corp.), 08 July, 2004 (08.07.04), (Family: none)	1-6
A	JP 2004-172703 A (Sony Corp.), 17 June, 2004 (17.06.04), (Family: none)	1-6
A	JP 2004-336530 A (Yamaha Corp.), 25 November, 2004 (25.11.04), (Family: none)	1-6
A	JP 6-269096 A (Olympus Optical Co., Ltd.), 22 September, 1994 (22.09.94), (Family: none)	1-6
A	JP 2005-12765 A (Yamaha Corp.), 13 January, 2005 (13.01.05), (Family: none)	1-6
A	JP 2005-80079 A (Sony Corp.), 24 March, 2005 (24.03.05), (Family: none)	1-6
A	JP 2005-27020 A (Kabushiki Kaisha FPS), 27 January, 2005 (27.01.05), (Family: none)	1-6